

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D500-572 REV. A OR LATER APPROVED REVISION AND  
INSTALLATION FOR CONTINUED AIRWORTHINESS ICA-D500-572 REV. 0 OR LATER APPROVED REVISIONS

REF. TCCA STC: SH90-17  
REF. FAA STC: SH849NE  
REF. JAA STC: ACG.21NE2.104

## 1.0 INTRODUCTION

It has come to DART's attention that the D2438 Clamps provided with D500-572-011 Bearpaw Kit at CHG 005 and earlier and D500-572-021 Bearpaw kit at CHG 006 and earlier might be too long.

## 2.0 PURPOSE

The purpose of this DSI (DART Service Instruction) is to change the clamp configuration for D500-572-011 Bearpaw Kits at CHG 006 and later and D500-572-021 Bearpaw Kits at CHG 007 and later and to introduce the DSI 9770-011 Clamp Kit for operators who wish to upgrade their existing D500-572-011/-021 Bearpaw Kits in service.

## 3.0 INSTRUCTIONS

These instructions reference Figure 1 of this service instruction. Figure 1 replaces Sections A-A and B-B of IIN-D500-572 (ref. Figures 2 and 3) and ICA-D500-572 (ref. Figures 32-1 and 32-2).

3.1 Jack up the aircraft and ensure the skid tubes are serviceable.

3.2 (i) For the D500-572-011 Bearpaw Installation: Position D2435 Bearpaw on the aft end of each skid tube so that both bearpaw clamps are located aft of the aft saddle as shown in Figure 2 of IIN-D500-572 and Figure 32-1 of ICA-D500-572.

(ii) For the D500-572-021 Narrow Bearpaw Installation: Position D2671 Bearpaw on the aft end of each skid tube so that both bearpaw clamps are located aft of the aft saddle as shown in Figure 3 of IIN-D500-572 and Figure 32-2 of ICA-D500-572.

3.3 The bearpaw may be relieved to clear wearshoe mounting screws provided the relief leaves 0.375" (9.53mm) thickness.

3.4 For the D500-572-011 and D500-572-021 Bearpaw Installations, the QS200M44S Clamps must be installed behind the forward D5476-1 Clamp to ensure that the bearpaw doesn't slip, as shown in Figures 2 and 3 of IIN-D500-572 and Figures 32-1 and 32-2 of ICA-D500-572.

3.5 Attach the D5476-1 Clamps and D5472-1 Cushions with the hardware shown in Figure 1 of this Service Instruction. Additional NAS1149D0463J (or AN960J0416) washers may be installed under the nuts to ensure 1.5-4 threads in safety on the bolts. Although not generally necessary, it is also acceptable to replace the AN4-13A bolts with longer or shorter AN4 bolts, if required.

**CAUTION:** The torque on the nuts should be limited to 20 in-lb (2.3 Nm)

3.6 Lower the aircraft.

3.7 Update the aircraft log book to indicate installation of the D500-572-011/-021 Bearpaw in compliance to DSI 9770.

## 4.0 WEIGHT AND BALANCE

This DSI has a negligible effect on weight and balance. For installation of the D500-572-011/-021 Bearpaws on high gear, the weight and balance numbers provided in IIN-D500-572 Rev. A and ICA-D500-572 Rev. 0 are still applicable. For installation of the D500-572-011/-021 Bearpaws on low gear, the weight and balance numbers provided in DSI 9290 Rev. A are still applicable.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 17.01.09  
CERT. NO.: SH90-17  
ISSUE NO.: 7

APPROVED

A	NEW ISSUE	MB	17.01.09
REV.	DESCRIPTION	BY	DATE
DESIGN	MB	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	MB		
CHECKED	ML	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9770	SHEET 1 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	CLAMP KIT	NTS
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## 5.0 PARTS LIST

The parts list for D500-572-011/-021 Bearpaw Kits are updated as follows:

Qty -011	Qty -021	Part Number	Description
X		D500-572-011	BEARPAW INSTALLATION
	X	D500-572-021	NARROW BEARPAW INSTALLATION
2		D2435	BEARPAW
	2	D2671	BEARPAW
8	8	D2274	RADIUS BLOCK
8	8	D2529	WASHER
4	4	D5472-1	CUSHION (REPLACES D2182B050)
4	4	D5476-1	CLAMP (REPLACES D2438)
8	8	AN4-13A	BOLT (WAS AN4-15A)
8	8	NAS1149D0463J	WASHER (OR AN960JD416)
8	8	MS21042L4	NUT (OR MS21042-4)
2	2	QS200M44S	CLAMP

Operators who wish to upgrade their existing D500-572-011/-021 Bearpaw Kits in service can procure the DSI 9770-011 Clamp Kit from DART:

Qty -011	Part Number	Description
X	DSI 9770-011	BEARPAW INSTALLATION
8	D2274	RADIUS BLOCK
8	D2529	WASHER
4	D5472-1	CUSHION
4	D5476-1	CLAMP
8	AN4-13A	BOLT
8	NAS1149D0463J	WASHER (OR AN960JD416)
8	MS21042L4	NUT (OR MS21042-4)
2	QS200M44S	CLAMP

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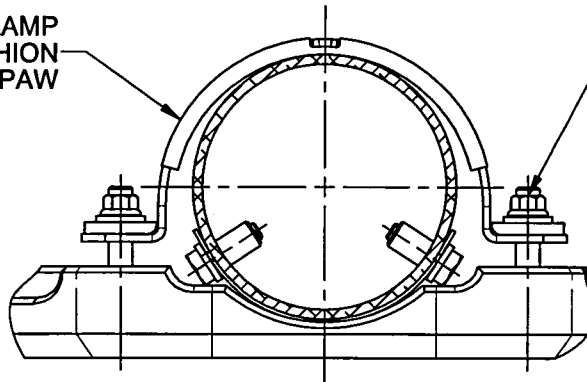
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DESIGN	MB	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA
DRAWN	MB	
CHECKED	ML	DRAWING NO. <b>DSI 9770</b>
MFG. APPR.	N/A	REV. A SHEET 2 OF 3
APPROVED	HS	TITLE <b>CLAMP KIT</b>
DE APPR.	DS	SCALE NTS
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D5476-1 CLAMP  
D5472-1 CUSHION  
2 PL PER BEARPAW



MS21042L4 NUT, SELF-LOCKING  
NAS1149D0463J WASHER  
D2274 RADIUS BLOCK  
D2529 WASHER  
AN4-13A BOLT  
4 PL PER BEARPAW

**FIGURE 1: SECTION VIEW**  
(REPLACE SECTIONS A-A AND B-B  
OF IIN-D500-572 AND ICA-D500-572)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

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DRAWN	MB		
CHECKED	ML	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9770	SHEET 3 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	CLAMP KIT	NTS
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